

Appl. No. 10/400,528

**Amendments to the Specification:**

Please replace the paragraph starting on p. 8, line 4 with the following amended paragraph:

An example of a current transmitter and receiver for 3GPP/UMTS is shown in Figure 2. The transmitter is generally indicated at 501 and the receiver at 503. The transmitter has two generic channels P-SCH 500 and S-SCH 502 which are not user specific. Channel P-SCH 500 undergoes gain  $G_P$  510 and channel S-SCH 502 undergoes gain  $G_S$  512. The two generic channels are combined in adder 514. Channels 504, 506, 508 are the channels which are sent to a specific user. There would be multiple sets of these channels for different users. Shown is the pilot channel PICH 504 and dedicated channels DDCH 1 506...DDCH N 508. The pilot channel 504 is multiplied by spreading code  $C_{PICH}$  504 515 and undergoes gain  $G_{PICH}$  517. Each of the channels 506...508 is spread by a respective code  $C_{D1}$  516...,  $C_{DN}$  518 and undergoes respective gain  $G_{D1}$  519... $G_{DN}$  520. Each of the user specific channels are combined at adder 522 and is scrambled by the same scrambling code at 524. The generic channels are then combined with the user specific channels at adder 526, lowpass filtered at 528 and digital-to-analog converted at 530 before being transmitted through antenna 532.

Please replace the paragraphs starting on p. 21, line 1 with the following amended paragraphs:

Figure 1 is a schematic illustration of a typical communication link existing in a scattering environment;

Figure 2 is a block diagram of a ~~typical~~ conventional ~~typical~~ CDMA (Code Division Multiple Access) transmitter;